

designed for scientists



C 200 h

/// Data Sheet

The C 200 h package is designed for teaching and training purposes at technical schools and universities. Due to its semi-automated isoperibol mode it is also perfectly suitable for industrial laboratories with low number of analyses. The space-saving and standard-conforming combustion calorimeter determines the gross calorific value of liquid and solid samples.

The scope of delivery includes:

C 200 calorimeter measuring cell

C 5012 halogen resistant, catalytic activated decomposition vessel









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C 200.2 conversion kit for C 5012 C 248 oxygen filling station Consumables for calibration and installation

The water and oxygen handling is conducted manually. In case of an increasing amount of measurements the water handling system can be further automated. For that purpose, the C 200.RC hose set as well as the RC 2 basic recirculating chiller are required. Both accessories are available separately.

The catalytic activated, halogen resistant decomposition vessel C 5012 is specifically designed for the combustion of samples that contain halogens and sulfur (> 3 %). The material of the decomposition vessel (Hastelloy) prevents corrosion caused by samples with high chlorine content. The catalytic activated inner-surface leads to higher recovery rates in case analysis of halogens and/or sulfur is required after the combustion.

Four different operation modes enable the user to control the measuring times according to individual requirements:

Isoperibol: approx: 17 min. Dynamic: approx. 8 min

Manual: approx. 17 min (depends on the operator)

Time controlled: 14 min

Measurements are possible according to e.g. DIN 51900, ISO 1928, ASTM D240, ASTM D4809, ASTM D5865, ASTM D1989, ASTM D5468, ASTM E711.

The software C 6040 CalWin controls the unit and monitors the measurement of the samples. Additionally, collected data can be exported to e.g. Excel, Word, SQL and LIMS for further analysis. It is possible to operate several calorimeters with one PC. A PC is not part of the scope of delivery and needs to be provided by the operator. CalWin is sold separately.









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Technical Data

Tooming Data	
Measuring range max. [J]	40000
Measuring mode dynamic 25°C	yes
Measuring mode isoperibol 25°C	yes
Measuring time dynamic approx. [min]	8
Measuring time isoperibol approx. [min]	17
Reproducibility dynamic (1g benzoic acid NBS39i) [%RSD]	0.1
Reproducibility isoperibol (1g benzoic acid NBS39i) [%RSD]	0.1
Working temperature max. [°C]	25
Temperature measurement resolution [K]	0.0001
Interface printer	Centronix
Interface PC	RS232
Decomposition vessel C 5010	yes
Decomposition vessel C 5012	yes
Decomposition vessel, halogen resistant	yes
Analysis according to DIN 51900	yes
Analysis according to ISO 1928	yes
Dimensions (W x H x D) [mm]	400 x 400 x 400
Weight [kg]	29.785
Permissible ambient temperature [°C]	20 - 25
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	120





